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SHAFT-SEALING STRUCTURE IN VACUUM PUMP

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ABSTRACT

PROBLEM TO BE SOLVED: To provide a **shaft - sealing** structure, capable of achieving long service life of a **lip seal** , while ensuring superior **sealing** performance in a vacuum pump.

SOLUTION: **Lip seals** 45, 46, 45A, 46A are mounted on the peripheral faces of rotary **shafts** 19, 20, respectively located between radial **bearings** 37, 38 and rotors 27, 32. A rubber **lip ring** 452 of the **lip seals** 45, 45A is mounted on a gear accommodating chamber 331 side. A fluororesin **lip ring** 463 of the **lip seals** 46, 46A is mounted on the pump room 43 side. Backing pressure chambers 49, 50 between the rubber **lip ring** 452 and the fluororesin **lip ring** 463 communicates with the gear accommodating room 331 via ventilation passages 51, 52.

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